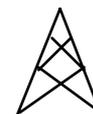


PETROLEUM GEOLOGISCHE KRING



KONINKLIJK NEDERLANDS GEOLOGISCH MIJNBOUWKUNDIG GENOOTSCHAP **PGK**

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Venue:	PGK's monthly meetings are held at the KIVI building, Prinsessegracht 23, Den Haag. Drinks are served from 17:00 hrs; the lecture starts at 18:00 hrs.	www.pgknet.nl	
Membership:	Apply for membership by contacting the secretariat. The annual fee is €15.-		
Accounts:	Fortis Bank: 88.65.82.733 (PGK, Den Haag)		

OCTOBER 2005 NEWSLETTER

19 OCTOBER: MONTHLY MEETING

The next PGK meeting will be on **Wednesday, October 19th, 2005**. As usual, social hour (free drinks) will be from 17:00 to 18:00 hrs. The lecture will be given by **Joris Steenbrink (NAM-EPE Shell)** on:

“The Groningen Field Review – A new perspective on Shell’s most valuable gas field using state of the art techniques”

Please see other side of this newsletter for the lecture abstract.

NOVEMBER MEETING:

The November meeting will be held on **Wednesday November 16th, 2005**. As usual, free drinks will be served during the social hour (starting 17:00 hrs), followed by the lecture at 18:00 hrs given by **Kees Rutten (Slokkert Consultancy)** with the title: **“Unfaulting and unfolding seismic sections for 'mainstream' seismic interpreters – practical validation of structural and stratigraphic interpretations”**.

ONE-DAY EXCURSION:

Unfortunately, the earlier announced excursion to the Triassic Winterswijk quarries has been cancelled for now, for reasons that the quarries are only very limited open to public. No alternative excursion could be found on the earlier communicated date (OCT/22nd). The Board is looking for a suitable alternative and will announce more details as soon as possible. Check the website regularly for more details (<http://www.pgknet.nl>).

NEW MEMBERS:

Applications for memberships have been received from Rob NewBould (Petro-Canada Netherlands), Leo van Borren (Petro-Canada Netherlands), Daan Moes (Fugro Robertson) and David Griffiths (Endeavour Energy UK). If no objections are received prior to or during the next meeting, they are automatically admitted as member of our society.



PETROLEUMGEOLOGISCHE KRING

KONINKLIJK NEDERLANDS GEOLOGISCH MINBOUWKUNDIG GENOOTSCHAP **PGK**

Monthly meeting: Wednesday 19 October 2005
Address: KIVI building, Prinsessegracht 23, Den Haag
Social hour: (free drinks) between 17:00 and 18:00 hrs
Lecture: at 18:00 hrs

“The Groningen Field Review – A new perspective on Shell’s most valuable gas field using state of the art techniques”

Joris Steenbrink (NAM–EPE Shell)

ABSTRACT – The Groningen gas field, discovered in 1959, constitutes one of the biggest assets of Shell. With substantial amounts of gas still in place, the field will for many years remain the main supplier of volumes and capacity for the Dutch and European gas markets. To ensure the field can play this role in future, further field development projects are planned for the coming years. Future development decisions need to be based on a good understanding of the subsurface. A major review of the Groningen field was initiated in 1999 to provide the subsurface models required to optimally evaluate field development options. The field review was carried out by a multi-disciplinary project team spanning all subsurface disciplines. This work was completed at the end of 2003.

Results of the project:

- Creation of state of the art static and dynamic models.
- Closure of a previously large gap between dynamic GIIP and static GIIP.
- Increase in the field’s reserves.
- Significantly improved reservoir management capabilities.
- Improved understanding of subsurface risks related to drilling of future wells.

The project brought about many innovations to the standard reservoir modelling workflow to achieve its objectives. For instance:

- Reservoir properties were mapped using initially low-end inversion (Jason), which formed input into a high end Promise inversion.
- Innovative workflow for individual and overall volumetric uncertainty determination.
- A tool was developed to split faults into individual components to provide total flexibility in dynamic modelling of individual fault transmissibilities.

Key learning points and success factors:

- Use of a project focussed, multidisciplinary team led to on-time, on-budget delivery.
- Stakeholder engagement at all stages of the project led to full support from all of many parties involved.
- A systematic approach to data preparation, management and quality control ensured that results were reliable and auditable, and provided a consistent database for future work.
- An iterative “3D all the way” approach defined key uncertainties up front and identified workflow improvements.

Applications:

- Results were used for optimization of Groningen cluster performance.
- Successful drilling of the development well Eemskanaal-13 to the Harkstede block. The well has been drilled in August 2005 on target, found formation tops as prognosed.
- Studies are ongoing for further appraisal of the peripheral Groningen blocks.

Please post this page your company’s notice board. Members may be accompanied by guests!

Thanks to our sponsors:

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